Avery Weigh-Tronix

Model E1010 Indicator

E1010

User Instructions

ENGLISH

43092-0017A e1 *April 21, 2006*

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IMPORTANT

When programming or configuring the equipment you must ensure that you comply with all relevant standards and legislation. The example settings given in this book may not be legal for trade with the public.

Declarations of compliance

United States

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Classe A prescrites dans le Règlement sur le brouillage radioélectrique edicté par le ministère des Communications du Canada.

European Countries

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which the user may be required to take adequate measures.

CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISPOSE OF USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

ATTENTION: IL Y A DANGER D'EXPLOSION S'IL Y A REMPLACEMENT INCORRECT DE LA BATTERIE, REMPLACER UNIQUEMENT AVEC UNE BATTERIE DU MÊME TYPE OU D'UN TYPE ÉQUIVALENT RECOMMANDÉ PAR LE CONSTRUCTEUR. METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT.

CAUTION: THE POWER SUPPLY CORD IS USED AS THE MAIN DISCONNECT DEVICE, ENSURE THAT THE SOCKET-OUTLET IS LOCATED/INSTALLED NEAR THE EQUIPMENT AND IS EASILY ACCESSIBLE

ATTENTION: LE CORDON D'ALIMENTATION EST UTILISÉ COMME INTERRUPTEUR GÉNÉRAL. LA PRISE DE COURANT DOIT ÊTRE SITUÉE OU INSTALLÉE À PROXIMITÉ DE L'ÉQUIPEMENT ET ÊTRE FACILE D'ACCÉS".

Avery Weigh-Tronix

CE

Declaration of Conformity

Manufacturer	Avery Weigh-Tronix
Type	E1005, E1010
No. of EC type approval certificate	UK 2723

corresponds to the requirements of the following EC directives:

Non–Automatic Weighing Instruments Directive	90/384/EEC [1]
EMC Directive	89/336/EEC
Low Voltage Directive	73/23/EEC

The applicable harmonised standards are:	EN 45501, EN 61000-4, EN 55022, EN 60950

Note [1] : This declaration is only valid if the non–automatic weighing instrument was verified by the manufacturer **or** with a certificate of conformity issued by a notified body.

A copy of the original signed declaration for this instrument is available from:

Avery Weigh-Tronix, Foundry Lane, Smethwick, West Midlands B66 2LP England

Avery Weigh-Tronix

CE

Verklaring van Overeenstemming

Fabrikant	Avery Weigh-Tronix
Type	E1005, E1010
Nummer van de Verklaring van EG-typegoedkeuring	UK2723

is in overeenstemming met de voorschriften van de volgende EG-richtlijnen:

Richtlijn Niet-automatische Weegwerktuigen	90/384/EEG [1]
Richtlijn EMC	89/336/EEG
Richtlijn Laagspanning	73/23/EEG

Toegepaste geharmoniseerde normen:	EN 45501, EN 61000-4 EN 55022, EN60950

Noot [1] : Deze verklaring is alleen geldig indien het weegwerktuig door de fabrikant is geverifieerd **of** met een Verklaring van Overeenstemming, afgegeven door een bevoegde instantie

Een kopie van de originele ondertekende verklaring is verkrijgbaar door contact op te nemen met:

Avery Weigh-Tronix, Foundry Lane, Smethwick, West Midlands B66 2LP England

Avery Weigh-Tronix

CE

Déclaration de Conformité

Fabricant	Avery Weigh-Tronix
Type	E1005, E1010
No. de certificat d'approbation de type CE	UK2723

correspond aux exigences des directives CE suivantes :

Directive pour les instruments de pesage à fonctionnement non automatique	90/384/CEE [1]
Directive CEM	89/336/CEE
Directive Basse Tension	73/23/CEE

Les normes harmonisées applicables sont :	EN 45501, EN 61000-4 EN 55022, EN 60950

Nota [1] : Cette déclaration est valide seulement si l'instrument de pesage à fonctionnement non automatique a été vérifié par le fabricant **ou** avec une attestation de conformité délivrée par un organisme notifié.

Une copie originale de la déclaration signée pour cet appareil est disponible à l'adresse suivante :

Avery Weigh-Tronix, Foundry Lane, Smethwick, West Midlands B66 2LP England

Avery Weigh-Tronix

CE

Konformitätserklärung

Hersteller	Avery Weigh-Tronix
Typ	E1005, E1010
Nr. der EU-Bauartzulassung	UK2723

entspricht den Anforderungen folgender EU-Richtlinien:

Waagenrictlinie für nichtselbsttätige Waagen	90/384/EWG[1]
EMV-Richtlinie	89/336/EWG
Niederspannungsrichtlinie	73/23/EWG

Die angewendeten harmonisierten Normen sind:	EN 45501, EN 61000-4 EN 55022, EN 60950

Anmerkung [1]: Diese Erklärung gilt nur, wenn die nichtselbsttätige Waage vom Hersteller geeicht wurde **oder** in Verbindung mit einer Konformitätsbescheinigung einer benannten Stelle.

Eine Abschrift der original unterschriebenen Konformitätserklärung ist unter untengenannter Adresse erhältlich von:

Avery Weigh-Tronix, Foundry Lane, Smethwick, West Midlands B66 2LP England

Avery Weigh-Tronix

CE

Dichiarazione di conformità

Produttore	Avery Weigh-Tronix
Tipo	E1005, E1010
N. - certificato di approvazione CE	UK2723

conforme alle caratteristiche previste dalle seguenti direttive CE:

Normativa per satrumenti di pesatura non automatici	90/384/CEE [1]
Normativa EMC	89/336/CEE
Normativa per la bassa tensione	73/23/CEE

Le norme standard armonizzate applicate sono:	EN 45501, EN 61000-4 EN 55022, EN 60950

Nota [1] : Questa dichiarazione è valida solamente se lo strumento di pesatura non automatico è stato verificato dal produttore **o** provvisto di un certificato di conformità rilasciato da un ente riconosciuto.

Se richiesta, è disponibile una copia del certificato originale firmato presso:

Avery Weigh-Tronix, Foundry Lane, Smethwick, West Midlands B66 2LP England

Avery Weigh-Tronix

CE

Declaración de Conformidad

Fabricante	Avery Weigh-Tronix
Tipo	E1005, E1010
Número del certificado de homologación CE	UK2723

conforme a las exigencias de las siguientes directivas CE:

Directiva para equipos de pesaje no automáticos	90/384/EEC [1]
Directiva CEM	89/336/EEC
Directiva de baja tensión	73/23/EEC

Las normas armonizadas en vigor son:	EN 45501, EN 61000-4 EN 55022, EN60950

Nota [1] : Esta declaración es válida solamente si el equipo de pesaje no automático ha sido verificado por el fabricante **o** con certificado de conformidad emitido por un organismo notificado.

Una copia del certificado de homologación que corresponde a este equipo se puede obtener en:

Avery Weigh-Tronix, Foundry Lane, Smethwick, West Midlands B66 2LP England

Contents

page

Contents 11

Safety and Warnings 13
- Installatie en service (Dutch) 15
- Installation et Service (French) 17
- Installation und Wartung (German) 19
- Installazione e manutenzione (Italian) 21
- Instalación y Mantenimiento (Spanish) 23

Introduction 25

Front Panel 26

Battery Information 30

PLU (Product Look Up) Memory Channels 31

Entering an ID Number 32

Menu Mode 33

Indicator Operations 44
- General Tare/Net Weighing 45
- Checkweighing 47
- Counting 49
- Batch Weighing 50
- Peak Weighing 51

Communications and Printing 52

Error Messages 53

Indicator Diagnostics 54

Specifications 57

Safety and Warnings

1

1.1 Installation and service (English)

THE EQUIPMENT CONTAINS NO USER SERVICEABLE COMPONENTS.

Installation and maintenance of the equipment must only be carried out by trained and authorized personnel.

1.2 Electrical installation

The mains lead must be connected to a supply outlet with a protective earth contact. The electrical supply at the socket outlet must provide over current protection of an appropriate rating.

For your protection all mains (110V or 230V) equipment used out of doors or in wet or damp conditions should be supplied from a correctly fused source and protected by an approved ground fault protection device (RCD, GFCI etc.)
IF IN DOUBT SEEK ADVICE FROM A QUALIFIED ELECTRICIAN.

Pluggable equipment

Pluggable equipment must be installed near an easily accessible socket outlet.

Permanently wired equipment - Isolator requirements

Permanently connected equipment must have a readily accessible disconnect device incorporated in the fixed wiring. (An isolator or circuit breaker with at least 3mm contact separation).

The isolator MUST NOT be installed into the flexible mains cable supplied with the unit.

Electrical installation - (supplementary notes for wet conditions)

Under wet conditions the plug must be connected to the final branch circuit via an appropriate socket / receptacle designed for wash down use.

Installations within the USA should use a ‘Rain tight while in use specification grade cover’, such as those manufactured by Leviton. These allow the unit to be plugged in with a rain tight cover fitted over the plug / receptacle allowing it to meet a NEMA 3R rating, as required by the national electrical code under section 410-57. Note that the particular cover mentioned is listed in UL file #E13397.

Installations within Europe must use a socket which provides a minimum of IP56 protection to the plug / cable assembly. Care must be taken to ensure that the degree of protection provided by the socket is suitable for the environment.

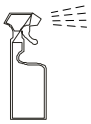
1.3 Routine maintenance

To avoid the possibility of electric shock or damage to the machine, always switch off the machine and isolate from the power supply before carrying out any routine maintenance.

To avoid the risk of the machine falling, where applicable, ensure that it is placed securely on a flat and level surface.

1.4 Cleaning the machine

The outside of standard products may be wiped down with a clean cloth, moistened with water containing a small amount of mild detergent.



Harsh abrasives, solvents, scouring cleaners and alkaline cleaning solutions, such as washing soda, should not be used especially on the display windows. Under no circumstances should you attempt to wipe the inside of the machine.

Do not spray any liquid directly onto the display windows. If you are using a proprietary cleaning fluid ensure you spray the cloth and not the display.

1.5 Training

Do not attempt to operate or carry out any procedure on a machine unless you have received the appropriate training or read the Instruction Books.

To avoid the risk of RSI (Repetitive Strain Injury) it is important to ensure that the machine is placed on a surface which is ergonomically satisfactory to the user. It is recommended that frequent breaks are taken during prolonged usage.

1.6 Sharp objects

Do not use sharp objects (screwdrivers, long fingernails etc.) to operate the keys.

1.7 EMC compliance

The following warning may be applicable to your machine.

WARNING:This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

1.8 Installatie en service (Dutch)

DE APPARATUUR BEVAT GEEN VOOR EEN SERVICEBEURT IN AANMERKING KOMENDE ONDERDELEN.

Installatie en onderhoud van de apparatuur mag alleen worden uitgevoerd door getraind en bevoegd personeel.

1.9 Elektrische installatie

De netstroomkabel moet worden aangesloten op een geaarde contactdoos. De stroomvoorziening op de contactdoos moet overstroombeveiliging van een toelaatbaar vermogen bieden.

Voor uw veiligheid moet alle in open lucht of onder natte of vochtige omstandigheden gebruikte netstroomapparatuur (110 V of 230 V) zijn voorzien van een goedgekeurde aansluitingsbescherming (RCD, GFCI enz.)
BIJ TWIJFEL DIENT ADVIES TE WORDEN GEVRAAGD AAN EEN GEKWALIFICEERDE ELEKTRICIEN.

Op een contactdoos aan te sluiten apparatuur

Op een contactdoos aan te sluiten apparatuur moet worden geïnstalleerd in de buurt van een goed te bereiken wandcontactdoos.

Permanent bedrade apparatuur - Vereisten voor isolatieschakelaar

Apparatuur die permanent op een contactdoos is aangesloten, moet in de vaste bedrading zijn voorzien van een goed te bereiken scheidingsschakelaar. (Een isolatieschakelaar of stroomonderbreker met een minimale contactscheiding van 3 mm).

De isolatieschakelaar MAG NIET worden geïnstalleerd in de met de installatie meegeleverde flexibele netstroomkabel.

Elektrische installatie - (aanvullende opmerkingen voor natte omstandigheden)

Onder natte omstandigheden moet de stekker op het eindtakcircuit worden aangesloten met een contactdoos dat geschikt is voor contact met water.

Installaties in de VS moeten gebruik maken van een ‘Rain tight while in use specification grade cover’, zoals die worden gemaakt door Leviton. Hierdoor kan de apparatuur worden aangesloten met een waterdicht deksel dat over de stekker / contactdoos wordt geplaatst. Zo voldoet de installatie aan NEMA 3R zoals vereist in de "national electrical code", sectie 410-57. Het betreffende deksel is vermeld in UL reg #E13397.

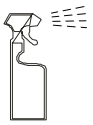
Installaties in Europa moeten gebruik maken van een stopcontact dat minimaal IP56 bescherming biedt aan de stekker / kabelassemblage. Men dient ervoor te zorgen dat de door de contactdoos geboden mate van bescherming geschikt is voor de omgeving.

1.10 Periodiek onderhoud

Schakel de apparatuur altijd uit en haal deze uit de contactdoos voordat u periodiek onderhoud pleegt om het risico van een elektrische schok of beschadiging van de apparatuur te voorkomen.

Zorg dat de apparatuur zich altijd op een vlak en effen oppervlak bevindt om te voorkomen dat deze op de grond valt.

1.11 Het apparaat reinigen



De buitenkant van de standaardproducten kan met een schone vochtige doek met een klein beetje mild reinigingsmiddel worden afgenomen.

Gebruik geen schuurmiddelen, oplosmiddelen, schuurpoeder of alkalische reinigingsmiddelen (zoals soda) om het apparaat te reinigen. Gebruik deze middelen in elk geval nooit op de displayvensters. De binnenkant van het apparaat mag nooit worden gereinigd.

Spuit geen vloeistof direct op het displayvenster. Als u een schoonmaakmiddel in een spuitbus gebruikt, spuit het middel op de doek en niet op het displayvenster.

1.12 Training

Tracht geen procedure op de machine uit te voeren, behalve wanneer u de relevante training gehad, of de instructieboeken gelezen heeft.

Om RSI (Repetitive Strain Injury = letsel door repetitieve werkzaamheden) te voorkomen, is het belangrijk ervoor te zorgen dat het apparaat op een werkoppervlak wordt geplaatst dat ergonomisch voldoet voor de gebruiker. In gevallen van lang gebruik adviseren wij regelmatig een pauze in te lassen.

1.13 Scherpe voorwerpen

Gebruik geen scherpe voorwerpen (schroevendraaiers, lange vingernagels etc.) om de toetsen te bedienen.

1.14 EMC-naleving

De volgende waarschuwing kan op uw apparaat van toepassing zijn.

WAARSCHUWING: Dit is een klasse A-product. In huiselijke omgeving kan dit product radiostoring veroorzaken in welk geval de gebruiker de noodzakelijke maatregelen dient te nemen.

1.15 Installation et Service (French)

CET EQUIPEMENT NE CONTIENT AUCUN COMPOSANT PERMETTANT L'INTERVENTION TECHNIQUE DE L'UTILISATEUR.

L'installation et la maintenance de cet équipement doivent être exécutées uniquement par du personnel spécifiquement formé et habilité à intervenir.

1.16 Installation électrique

Le câble d'alimentation doit être branché sur une prise équipée d'un dispositif de masse - mise à la terre. L'alimentation électrique au niveau de la prise doit assurer une protection d'une valeur appropriée contre une surcharge de courant.

Par mesure de sécurité, tous les équipements fonctionnant sous 110 ou 230 V utilisés en extérieur ou dans des conditions d'humidité doivent être raccordés à une source avec un coupe-circuit et protégé par un appareil homologué de protection contre les défauts de masse (normes RCD, GFCI, etc.)
EN CAS DE DOUTE, DEMANDER L'AVIS D'UN TECHNICIEN QUALIFIE.

Equipement avec prise secteur

Ces équipements électriques doivent être installés près d'une prise facilement accessible.

Equipement connecté en permanence - Consignes d'isolement

Les équipements qui doivent être alimentés en permanence doivent être dotés d'un système de déconnexion facilement accessible et intégré au câblage (un circuit isolant ou coupe-circuit avec une séparation de contact d'au moins 3 mm).

Le circuit isolant ne doit pas être installé dans le câble flexible fourni avec l'appareil.

Installation électrique - Information supplémentaire pour conditions d'humidité

Dans des environnements humides, la fiche d'alimentation doit être connectée à une prise ou boîtier spécialement conçu et protégé contre les jets d'eau.

Les installations effectuées aux États-Unis doivent utiliser un couvercle imperméable, tel que ceux fabriqués par Leviton. Ce couvercle, classé NEMA 3R, permet de protéger l'appareil et la prise conformément au code national électrique, section 410-57. Remarque : le couvercle mentionné ci-dessus est répertorié dans le fichier UL #E13397.

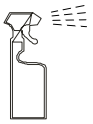
Pour les installations en Europe il est nécessaire d'utiliser au minimum une connexion aux normes IP56 pour la prise, la fiche secteur et le câble. Veiller à ce que la protection fournie par le point de connexion soit adaptée à l'environnement.

1.17 Maintenance de routine

Avant toute maintenance de routine, pour éviter toute possibilité de choc électrique ou de dommage à l'appareil, éteindre toujours la machine et la déconnecter de l'alimentation secteur.

Pour éviter tout risque éventuel de chute de la machine, vérifier qu'elle soit placée sur une surface plane et à niveau.

1.18 Nettoyage de l'appareil



L'extérieur des produits standard peut être nettoyé avec un chiffon propre, humidifié avec de l'eau et une petite quantité de détergent.

Ne pas utiliser de détergents abrasifs ou de solutions alcalines telle que la soude ménagère, surtout sur les écrans. Ne jamais essayer de nettoyer l'intérieur de la machine.

Ne jamais vaporiser de liquide directement sur l'écran. En cas d'utilisation d'un liquide de nettoyant ménager, asperger le chiffon et non l'écran.

1.19 Formation

Ne pas essayer d'utiliser la machine ou suivre une procédure quelconque sans avoir reçu la formation appropriée ou avoir lu les manuels d'utilisation.

Pour éviter le risque de microtraumatismes répétés, il est important de s'assurer que la machine soit placée sur une surface ergonomiquement satisfaisante pour l'utilisateur. Il est recommandé que l'utilisateur fasse des pauses fréquentes en cas d'une utilisation prolongée.

1.20 Objets tranchants

Ne pas utiliser d'objets tranchants (tournevis, ongles trop longs…) pour actionner les touches.

1.21 EMC

L'avertissement suivant pourrait concerner votre appareil.

Attention. Ceci est un appareil de classe A. Dans un environnement domestique, cet appareil peut être la cause d'interférences radio. Dans ce cas, l'utilisateur peut être obligé de prendre les mesures adéquates.

1.22 Installation und Wartung (German)

DAS GERÄT ENTHÄLT KEINE TEILE, DIE VOM BENUTZER GEWARTET WERDEN KÖNNEN.

Die Installation und Wartung des Gerätes darf nur von geschultem und autorisiertem Personal durchgeführt werden.

1.23 Elektrische Installation

Die verwendete Steckdose muss unbedingt mit einem Schutzleiter ausgestattet sein. Die Stromversorgung über die Steckdose muss durch einen vorschriftsmäßigen Fehlerstrom-Schutzschalter geschützt sein.

Zu Ihrer eigenen Sicherheit sollten alle Netzstrom betriebenen (110V oder 230V) Geräte, die im Freien oder unter feuchten Bedingungen verwendet werden, von einer gesicherten Stromquelle, die über eine zugelassene Fehlerstrom-Schutzeinrichtung (FI-Schalter) geschützt ist, versorgt werden. IN ZWEIFELSFÄLLEN WENDEN SIE SICH BITTE AN EINEN QUALIFIZIERTEN ELEKTRIKER.**Angeschlossene Geräte**

Ans Netz angeschlossene Geräte müssen leicht vom Netz trennbar sein.

Ständig angeschlossene Geräte - Trennschalter-Anforderungen Dauerhaft angeschlossene Geräte müssen über einen leicht zugänglichen, in den festen Stromkreis integrierten Notschalter verfügen. (Einen Trenn-schalter oder Sicherungsautomaten mit mindestens 3mm Kontakt-Trennung).

Der Trennschalter DARF NICHT in das mitgelieferte flexible Netzkabel installiert werden.

Elektrische Installation - (Zusatz-Hinweise bei nassem Umfeld)

Im Freien oder unter feuchten Bedingungen muss der Stecker direkt über eine geeignete abwaschbare Steckdose an die Stromversorgung angeschlossen werden.

Anschlüsse in den USA sollten mit einer Abdeckung mit dem Spezifikationsgrad ‚Wasserundurchlässig während in Betrieb' versehen sein, wie beispielsweise die von Leviton.
Dadurch kann das Gerät an eine Steckdose mit einer wasserdichten Abdeckung laut NEMA 3R angesteckt werden, wie dies nach dem ‚National Electrical Code' Abschnitt 410-57 erforderlich ist. Hinweis: die genannte Abdeckung ist unter UL E13397 aufgelistet.

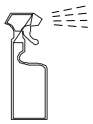
Anschlüsse in Europa müssen über eine Steckdose erfolgen, die die Mindest-Anforderungen der IP56-Schutzvorkehrung für Stecker / Kabel-anschlüsse erfüllt. Es muss darauf geachtet werden, dass der von der Steckdose gewährleistete Schutz den Anforderungen des entsprechenden Umfelds entspricht.

1.24 Regelmäßige Wartung

Zum Schutz vor Stromschlägen und um Beschädigungen des Gerätes vorzubeugen, muss dieses vor der Durchführung von Wartungs-arbeiten ausgeschaltet und vom Netz getrennt werden.

Um das Herunterfallen des Gerätes zu vermeiden, sollte dieses sicher auf einer ebenen und waagerechten Oberfläche platziert werden.

1.25 Reinigung des Gerätes



Das Gehäuse kann von außen mit einem feuchten Tuch gereinigt werden. Dem Wasser kann eine kleine Menge eines milden Reinigungsmittels beigefügt werden.

Zu Reinigungszwecken, besonders im Fall von Monitoren, dürfen keine Scheuermittel, Lösungsmittel oder andere alkalische Reinigungsmittel verwendet werden. Die Innenseite des Gerätes darf unter keinen Umständen nass gereinigt werden.

Sprühen Sie keine Flüssigkeiten direkt auf das Display. Wenn Sie eine Reinigungsflüssigkeit verwenden, sprühen Sie diese auf ein Tuch und nicht auf das Display.

1.26 Schulung

Ohne Durchlesen der Bedienungsanleitung bzw. einer Einweisung durch das Fachpersonal sollte das Gerät nicht bedient oder ein Verbundsystem in Betrieb genommen werden.

Um Fehlbelastungen zu vermeiden, sollte die Waage so platziert werden, dass sie den ergonomischen Ansprüchen des Bedieners gerecht wird. Es wird empfohlen, bei lang andauernder Bedienung des Gerätes regelmäßige Pausen einzulegen.

1.27 Spitze Gegenstände

Verwenden Sie keine spitzen Gegenstände (Schraubenzieher, lange Fingernägel usw.), um die Tasten zu bedienen.

1.28 EMV-gerecht

Der folgende Warnhinweis trifft unter Umständen auf Ihr Gerät zu.

WARNUNG: Bei diesem Gerät handelt es sich um ein Gerät der Klasse A. Dieses Gerät kann bei einem Betrieb in Wohngegenden Funkstörungen verursachen. Ist dies der Fall muss der Benutzer eventuell entsprechende Maßnahmen treffen.

1.29 Installazione e manutenzione (Italian)

L'APPARECCHIATURA NON CONTIENE COMPONENTI RIPARABILI DALL'UTENTE.

L'installazione e la manutenzione dell'apparecchiatura devono essere eseguite esclusivamente da personale addestrato e autorizzato.

1.30 Impianto elettrico

Il cavo di alimentazione deve essere collegato ad una presa di corrente con un contatto di messa a terra protettiva. La fornitura elettrica alla presa di corrente deve prevedere una protezione contro le sovracorrenti di un indice appropriato.

Per sicurezza l'apparecchiatura di rete (110 V o 230 V) utilizzata all'aperto oppure in condizioni di bagnato o umidità deve essere alimentata da una sorgente opportunamente equipaggiata con fusibili e protetta da un dispositivo approvato di protezione contro i guasti di terra, come ad esempio un dispositivo di corrente residua (RCI), un interruttore del circuito di rilevamento di fughe a terra (GFCI), ecc.
IN CASO DI DUBBI RIVOLGERSI AD UN ELETTRICISTA QUALIFICATO.

Apparecchiatura collegabile

L'apparecchiatura collegabile deve essere installata in prossimità di una presa elettrica facilmente accessibile.

Apparecchiatura cablata permanentemente - requisiti dell'isolatore

L'apparecchiatura collegata in modo permanente deve disporre di un dispositivo di disconnessione facilmente accessibile, incorporato nel cablaggio fisso – un isolatore o un interruttore salvacircuito con una separazione dei contatti di almeno 3 mm.

L'isolatore NON DEVE essere installato nel cavo di rete flessibile in dotazione con l'unità.

Impianto elettrico - (note aggiuntive in caso di condizioni di bagnato)

In condizioni di bagnato, la spina deve essere collegata al circuito terminale di derivazione tramite un'apposita presa concepita per applicazioni di lavaggio.

Per gli impianti negli Stati Uniti occorre utilizzare un "coperchio conforme alla specifica e un dispositivo di tenuta a prova di pioggia", come quelli prodotti da Leviton.
Questi consentono il collegamento dell'unità con un coperchio a prova di pioggia montato su presa che consente di soddisfare la classificazione NEMA 3R, secondo quanto richiesto dal codice nazionale per il materiale elettrico nell'articolo 410-57. Si noti che il coperchio menzionato è elencato nel file UL #E13397.

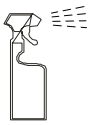
Per gli impianti in Europa occorre utilizzare una presa che fornisca almeno una protezione IP56 per il complesso spina/cavo. Assicurarsi che il grado di protezione fornito dalla presa sia adatto per l'ambiente.

1.31 Manutenzione di routine

Per evitare la possibilità di scosse elettriche o danni alla macchina, spegnere sempre la macchina e isolarla dall'alimentazione elettrica prima di eseguire gli interventi di manutenzione di routine.

Per evitare il rischio di caduta della macchina, laddove applicabile, assicurarsi che sia posizionata in modo sicuro su una superficie piana e orizzontale.

1.32 Pulizia della macchina



La parte esterna dei prodotti standard può essere pulita con un panno pulito, inumidito con acqua contenente una piccola quantità di detergente neutro.

Non utilizzare sostanze abrasive corrosive, solventi, detergenti sgrassanti e soluzioni detergenti a base alcalina, come ad esempio carbonato di sodio, particolarmente sui display. Non tentare mai di pulire l'interno della macchina.

Non spruzzare alcun liquido direttamente sui display. Se si utilizza un apposito liquido detergente assicurarsi di spruzzare il liquido su un panno e non sul display.

1.33 Formazione

Non tentare di azionare la macchina o non eseguire alcun intervento su di questa a meno che non si riceva una formazione appropriata o senza aver letto il manuale di istruzioni.

Per evitare lesioni derivanti da sollecitazioni ripetitive (RSI, Repetitive Strain Injury), è importante assicurarsi che la macchina venga posta su una superficie che sia posizionata in modo soddisfacente da un punto di vista ergonomico per l'utente. Si consiglia di effettuare frequenti interruzioni durante l'uso prolungato.

1.34 Oggetti appuntiti

Non utilizzare oggetti appuntiti (cacciaviti, unghie lunghe, ecc.) per azionare le chiavi.

1.35 Conformità alla direttiva sulla compatibilità elettromagnetica (EMC)

Per la macchina è possibile che sia applicabile la seguente avvertenza.

AVVERTENZA: questo è un prodotto di classe A. In un ambiente domestico, questo prodotto può causare interferenze radio e in tal caso è possibile che l'utente debba intraprendere misure adeguate.

1.36 Instalación y Mantenimiento (Spanish)

EL EQUIPO NO TIENE PARTES QUE PERMITEN UN MANTENIMIENTO POR EL USUARIO.

La instalación y el mantenimiento del equipo sólo pueden ser realizados por el personal calificado y autorizado.

1.37 Instalación eléctrica

El cable de electricidad debe ser conectado a un enchufe con toma de tierra. La alimentación eléctrica en el enchufe debe estar provista de una protección adecuada de sobrecorriente.

Para garantizar su seguridad, todo el equipo conectado a la red (110V o 230V) que se utiliza en el exterior o bajo condiciones de humedad debe ser alimentado por una fuente con fusibles adecuados y protegida por un dispositivo de protección contra la pérdida de tierra aprobado (RCD, GFCI, etc.).
EN CASO DE DUDA, CONSULTE UN TÉCNICO CALIFICADO.

Equipo conectado

Todo el equipo que se puede conectar a la red eléctrica se debe instalar cerca de una toma de corriente fácilmente accesible.

Equipo conectado permanentemente – Requisitos de aislador

Si el equipo está permanentemente conectado, debe existir un mecanismo de desconexión accesible incorporado en el cableado de la instalación eléctrica. (Un aislador o interruptor del circuito con una separación mínima del contacto de 3mm).

NO SE DEBE instalar el aislador dentro del cable de red flexible facilitado con la máquina.

Instalación eléctrica - (avisos adicionales para condiciones de humedad)

Bajo condiciones de humedad se debe conectar el enchufe directamente al suministro de corriente por medio de una toma de corriente adecuada e impermeable.

Instalaciones en los EEUU deberán proveer de una cubierta con un grado de especificación ‘Impermeable mientras en funcionamiento’ como aquellas fabricadas por Leviton.
Esto permite que la unidad sea enchufada con una cubierta impermeable colocada sobre el enchufe permitiendo cumplir con el grado NEMA 3R, según es requerido por el código nacional eléctrico bajo la sección 410-57. Aviso: La cubierta mencionada está listada en el archivo UL número E13397.

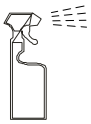
Instalaciones en Europa deben usar una toma de corriente que provea un mínimo de protección de IP56 a la conexión de enchufe / cable. Hay que asegurarse de que el grado de protección realizado por el enchufe corresponde a las exigencias del entorno.

1.38 Mantenimiento rutinario

Para evitar la posibilidad de un choque eléctrico o daños a la máquina, siempre apague la máquina y desconéctela del suministro eléctrico antes de realizar cualquier operación rutinaria de mantenimiento.

Para evitar el riesgo de caída de la máquina, asegúrese de colocarla adecuadamente sobre una superficie lisa y nivelada.

1.39 Limpieza de máquina



El exterior de los productos estándares se puede limpiar con un paño limpio humedecido con agua conteniendo una pequeña cantidad de detergente suave.

No se deben usar abrasivos duros, disolventes, estropajos o soluciones de limpieza alcalinas, tales como soda cáustica, especialmente en las pantallas de visualización. En ningún caso debe intentar limpiar el interior de la máquina.

No rocíe ningún líquido directamente a las pantallas de visualización. Si utiliza un fluido de limpieza específico asegúrese que lo rocía al paño y no a la pantalla.

1.40 Formación

No intente operar o llevar a cabo ningún procedimiento en la máquina si no ha recibido la capacitación apropiada o leído los Libros de Instrucción.

Para evitar el riesgo de LTR (lesión de la tensión repetida) es importante asegurarse que la máquina sea colocada en una superficie ergonómicamente satisfactoria para el usuario. En casos de un uso prolongado se les recomienda descansos frecuentes a los operarios.

1.41 Objetos afilados

No utilice objetos afilados (destornilladores, uñas largas, etc.) para teclear.

1.42 Conformidad de ESD

La siguiente advertencia se puede aplicar a su máquina.

ADVERTENCIA: Esto es un producto de clase A. En un ambiente doméstico este producto puede causar interferencias radiofónicas, en cuyo caso podría ser necesario que el usuario adopte medidas adecuadas.

Introduction

2

The Model E1010 is an easy to use, uncomplicated indicator for general weighing applications. It is ideal for bench scales, floor scales and tank weighing applications. The display includes a multi-segment fan graph for fast visual awareness for checkweighing. The indicator can perform counting functions, peak weight functions, act as a remote display and operate on battery power (optional). You can switch between enabled applications with one key press. The indicator also has 10 PLU (Product Look Up) memory channels for storing data.

Two communication ports allow connection to a printer, remote display or computer. The indicator also has three setpoint controls and can accommodate a footswitch for zero, print or tare function.

All this in an NEMA 6/4X rated enclosure.

2.1 About This Manual

Major sections of this manual are numbered and headed by titles in a black bar like Introduction above. Subheadings appear in the left column. Instructions and text appear on the right side of the page. Occasionally notes, tips, and special instructions appear in the left column.

2.2 Setup

Attention

The Model E1010 can be battery powered. Charge the battery overnight before using the indicator on battery power only. The unit can be run on the AC transformer (AC mains power) if the battery is drained or absent. See Battery Information for more information.

Your indicator will be installed by a qualified Avery Weigh-Tronix distributor. They will make the required connections to your scale and peripheral devices.

1. With the unit plugged in, see note at left, press and hold the switch until the display lights up, then release the key.
2. The indicator powers up in normal operation mode.

Front Panel

3

The front panel, shown in Figure 1, consists of the keys and display.

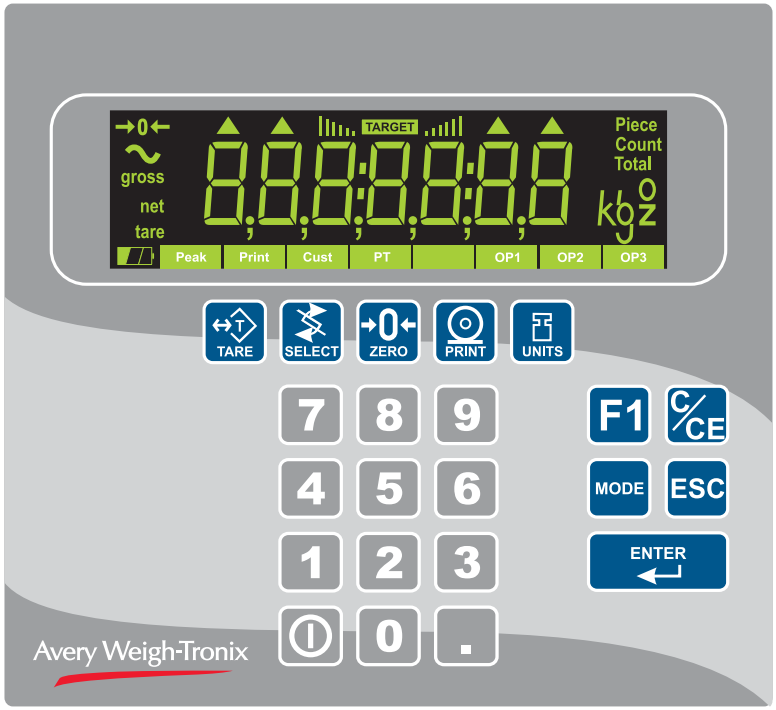


Figure 3.1 E1010 front panel

3.1 Keys

The functions of the keys on the front panel are listed below.

Press the TARE key to perform a tare function. To key in a known tare weight, key in the value and press the TARE key. Also acts as a left arrow key when in the menu structure.

Press the SELECT key to toggle between Gross, Tare, Net, Count, Gross Accumulator, Net Accumulator, Transaction Counter, Piece Weight, and Peak. This is dependent on the current application. Press and hold to access the cutoffs (trips) function. Also acts as an up arrow key when in the menu structure.

Press the ZERO key to zero the scale and display.

Press the PRINT key to send information to a peripheral device through the Comm port. Also acts as a down arrow key when in the menu structure.

Press the UNITS key to scroll through the available units of measure while in normal operating mode. Units are enabled in a password protected menu. (Contact your local supplier or Avery Weigh-Tronix distributor for assistance.) Also acts as a right arrow key when in the menu structure.

Press the F1 key to select application specific choices. Also used to access PLU (Product Look Up) memory channels.

Press the C/CE key to clear entries.

Press the MODE key to scroll through the enabled applications. The application name is briefly displayed when key is released.

Press the ESC key to escape a function or return to normal operation mode. Press and hold to access the password display for the menus.

Press the ENTER key to accept displayed choices.

Use the numeric keypad to enter values.
For example:

- ID entry
- Setpoint target entry
- Preset tare entry
- Password entry

To turn the unit on, press and hold the ON/OFF key until the display turns on. To turn the unit off, press and hold the ON/OFF key until the unit turns off.

There are annunciators that are located around the display window. These provide information on indicator function. Each is described below:

→0←	Center of zero annunciator
~	Motion annunciator
gross	Gross weight annunciator
net	Net weight annunciator
tare	Tare annunciator
	Battery level annunciator. If the unit is powered by AC, this annciator will be lit.
Peak	Peak weight annunciator
Print	Print annunciator lights when data is being sent to an external device.
Cust	Custom unit of measure annunciator
PT	Preset tare annunciator
Blank rectangle	This blank annunciator will light when an accumulation is occurring
OP1	Output 1 annunciator lights when the output 1 is active. There are annunciators for Output 2 and 3 also.

Piece	Piece weight annunciator lights when the piece weight in a counting application is displayed.
Count	Count annunciator lights when count is displayed in the counting application.
Total	Total annunciator lights when displaying the total count in the accumulator application.
kg oz	Unit of measure annunciator shows the current unit of measure.
TARGET	Checkweighing annunciator lights during use of the checkweiging application.

Battery Information

4

*When the indicator goes to sleep you must press the **ON/OFF** switch to restart the indicator.*

This unit may contain a sealed rechargeable 6 volt, 3.0Ah, lead-acid battery. Life expectancy of this battery is 3-5 years in standby use or:

- 180 charging cycles (approx.) if discharged 100%
- 400 charging cycles (approx.) if discharged 50%
- 1200 charging cycles (approx.) if discharged 30%

Battery life is 23 hours with one 350 ohm weight sensor and 15 hours with four 350 ohm weight sensors. Recharge time from complete discharge is 14 hours while powered up and in service (single loadcell). The AC power supply (AC mains supply) will charge the battery as it powers the indicator.

Battery life conservation can be configured through the indicator's Supervisor menu. See *Supervisor Menu* on page 34. You can set the sleep timer to OFF, 1/2 hour, two hours or four hours. Use the OFF setting If the battery is not installed.

PLU (Product Look Up) Memory Channels

5

If there are preset tares in the PLUs, you cannot enter a keyboard or pushbutton tare. Preset tares are enabled and entered under the Supervisor Menu on page 34.

If preset tares are not enabled, any tare you enter by keyboard or pushbutton method will be active for all PLUs.

This indicator has 10 channels of memory called PLU or Product Look Up. Each channel can contain the following information:

- Channel #
- ID#
- Tare
- Gross Accum.
- Net Accum.
- Total
- TARGET OP1
- TARGET OP2
- TARGET OP3
- Lower Limit
- Upper Limit
- Count Accum.
- Piece Weight
- Peak Weight

1. To activate or recall a PLU, key in the desired channel number (0-9) and press the **F1** key…

   The PLU channel is active. Any of the items listed above that have values are activated. Any values that are listed above that change while this PLU is active are stored, ie; accumulator, count, etc.

2. PLU channels can be cleared by using a password protected menu. These instructions are found in the *Supervisor Menu* on page 34. You can also print a report of all the PLU channels in the same password protected menu.

Entering an ID Number

6

You can enter an ID number which is then part of the active PLU channel. To enter an ID you must be in weighing mode. Key in a number on the keypad then press the **ENTER** key. This number will be assigned to the currntly active PLU.

Menu Mode

7

The E1010 has two menus you can use to set up and test the indicator: the User menu and the Supervisor menu. Both are explained below.

7.1 User Menu

- Use the User menu to do the following:
- Audit the number of configurations and calibrations performed
- See software information
- Display test
- Button test
- Serial port test

1. Access the User menu by pressing and holding the **ESC** key for 3-5 seconds.

   PASS_ is displayed.

2. Key in the User menu password, 111, and press the **ENTER** key. Figure 7.1 shows the User menu items. Use the keys shown in the dotted box in Figure 7.1 to navigate through the menu and choose the items you want.

*Press the **ESC** key to exit the menu.*

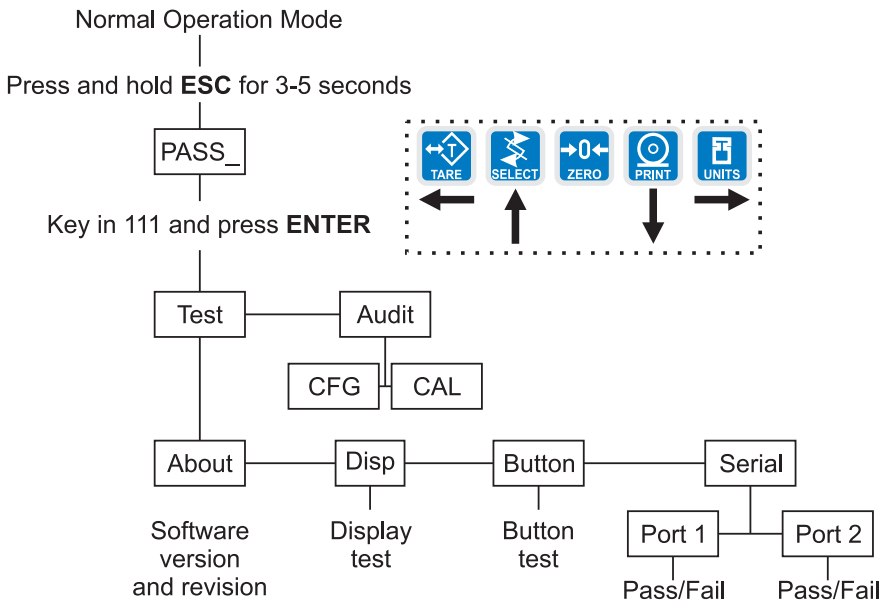


Figure 7.1 User menu

Specific instructions on the User menu appear in the section *Indicator Diagnostics* later in the manual.

7.2 Supervisor Menu

The Supervisor menu is shown in Figure 7.2. Use this menu to set time and date, print and clear reports, perform diagnostic tests and view audit counters.

WARNING: Entering this menu and changing settings may affect operation of the indicator and may require a service call to correct. Be sure you want to change settings before doing so.

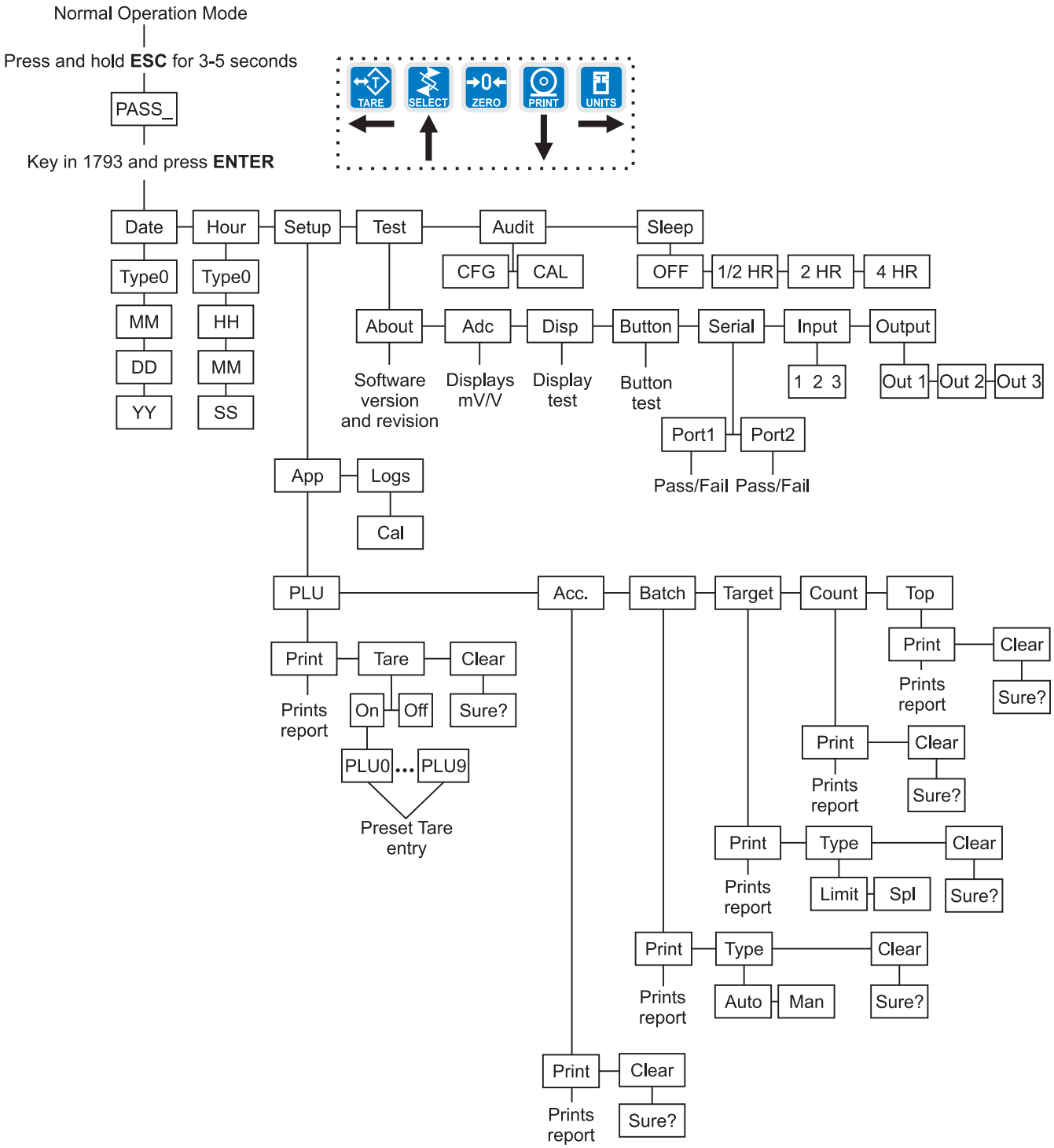


Figure 7.2 Supervisor Menu

Password for the Supervisor menu is 1793.

1. Access the Supervisor menu by pressing and holding the **ESC** key for 3-5 seconds…

   PASS_ is displayed.

2. Key in the password, 1793, and press **ENTER**…

   DATE is displayed. Use this to set the current date.

DATE submenu (Set date)

3. Press the **PRINT** key…

   TYPE1 is displayed. Dates styles are listed below along with number you enter to create that style:

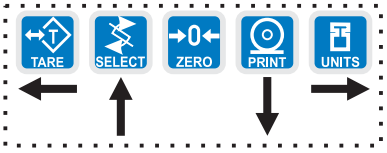
   - 1=MM/DD/YY
   - 2=MM/DD/YYYY
   - 3=DD/MM/YY
   - 4=DD/MM/YYYY

4. Using the **TARE** and/or **UNITS** key, scroll to the number for the style you want to use in all dated reports and press the **ENTER** key…

   nn XX is displayed. ***nn*** stands for month. ***XX*** is the current value.

5. Key in the month number (1 for Jan., 2 for Feb., etc.) and press the **ENTER** key…

   DD XX is displayed. ***DD*** stands for day and ***XX*** represents the current value.



6. Key in the date value and press the **ENTER** key…

   YY XX is displayed. ***YY*** stands for year and ***XX*** represents the current value.

7. Key in the year (04=2004, etc.) and press the **ENTER** key…

   DATE is displayed.

HOUR submenu (Set time)

1. Enter the Supervisor menu…

   DATE is displayed.

2. Press the **UNITS** key…

   HOUR is displayed. Use this item to set the time.

3. Press the **PRINT** key…

   TYPE1 is displayed.

   Type 1 is 24 hr. military format

   Type 2 is 12 hour, AM/PM format

Time must be entered in 24 hour (military) time.

4. Use the **TARE** and/or **UNITS** key to scroll to the number for the style you want to use in all time stamped reports and press the **ENTER** key…

   HH XX is displayed. This stands for hour and its current value. See note at left.

5. Key in the hour in military time and press the **ENTER** key…

   nn XX is displayed. ***nn*** stands for minute and ***XX*** represents the current value.

6. Key in the minutes and press the **ENTER** key…

   SS XX is displayed. ***SS*** stands for seconds and ***XX*** represents the current value.

7. Key in the seconds and press the **ENTER** key …

HOUR is displayed.

SETUP submenu (Setup menu)

1. Enter the Supervisor menu…

DATE is displayed.

2. Repeatedly press the **UNITS** key until…

UNITS is displayed. Use this item to set the time.

3. From previous step 6, press the **UNITS** key…

SETUP is displayed. Use this submenu to print and/or clear application reports and choose the operation modes or values for applications which have choices. Each is explained in the following steps. Reference *Supervisor Menu* on page 34

APP (Applications)

4. Press the **PRINT** key…

APP is displayed. Each application is listed below this menu item. Applications are enabled and disabled in a password protected menu but you do each application's configuration under this menu item. *Contact your local supplier or Avery Weigh-Tronix distributor for assistance with the password protected menu.*

PLU (Product Look Up)

5. Press the **PRINT** key…

PLU is displayed. This stands for Product Look Up. There are 10 PLU memory channels, numbered 0-9. Each channel contains all the parameter values and accumulator totals associated with all the different applications.

Printed PLU Information
Channel #
ID#
Tare
Gross Accum.
Net Accum.
Total
TARGET OP1
TARGET OP2
TARGET OP3
Lower Limit
Upper Limit
Count Accum.
Piece Weight
Peak Weight

This menu item lets you print out the information shown in the list at left, set a tare for each of the PLU channels and/or clear the information.

6. Press the **PRINT** key…

PRINT is displayed. Use this item to print out a complete report of all application parameters and totals.

7. Press the **ENTER** key to print the report…

Display shows ***BUSY*** briefly then returns to ***PRINT***. The report will be printed to your connected external device.

8. Press the **UNITS** key…

TARE is displayed. This item enables or disables the use of preset tares.

With PLU tares enabled, you cannot enter keyboard or pushbutton tares. PLU tares and the other tares are mutually exclusive per NTEP rules.

9. Use the **TARE** or **UNITS** key to toggle between the ***ON*** and ***OFF*** choices. Press the **PRINT** key when your selection is displayed…

If you choose ON go to step 9a. If you choose off, skip to step 9b.

9a). If you choose ***ON*** …

PLU 0 is displayed. See note at left.

Press the **PRINT** key…

A numeric entry screen is displayed.

Key in a tare value for PLU 0 and press **ENTER** to accept it

OR

Scroll to any PLU you want by using the **TARE** or **UNITS** key, press the **PRINT** key and then key in the tare value and press **ENTER** to accept it.

The PLU number is shown

Repeat scrolling to a PLU and entering a value until you are finished, then press **SELECT**…

TARE is displayed.

9b). If you choose ***OFF***…

TARE is displayed. With PLU tares disabled, the user can enter keyboard or pushbutton tares during normal weighing operations.

10. Press the **UNITS** key…

CLEAR is displayed. Use this item to clear all the information stored for each PLU. **WARNING - Only do this if you are sure you want the information permanently removed!**

You may want to print out the reports before clearing all the information.

11. Press the **PRINT** key…

SURE? is displayed.

12. Press the **ESC** key to abort the save process or press the **ENTER** key to clear all the information…

CLEAR is displayed.

Press the **SELECT** key…

PLU is displayed.

ACC
(Accumulator Application

13. Press the **UNITS** key…

ACC. is displayed. This stands for the accumulator application.

14. Press the **PRINT** key…

PRINT is displayed. Use this item to print out a complete report of accumulator totals.

15. Press the **ENTER** key …

Display shows ***BUSY*** briefly then returns to ***PRINT***.

16. Press the **UNITS** key…

CLEAR is displayed. Use this item to clear all the information stored for this application. **WARNING - Only do this if you are sure you want the information permanently removed!**

You may want to print out the report before clearing all the information.

17. Press the **ENTER** key…

SURE? is displayed.

18. Press the **ESC** key to abort the save process or press the **ENTER** key to clear all the information…

CLEAR is displayed.

19. Press the **SELECT** key…

    ACC. is displayed.

BATCH
(Batch Application)

20. Press the **UNITS** key…

    BATCH is displayed.

21. Press the **PRINT** key…

    PRINT is displayed. Use this item to print out a complete report of batch information.

22. Press the **ENTER** key …

    Display shows ***BUSY*** briefly then returns to ***PRINT***.

23. Press the **UNITS** key…

    TYPE is displayed. Use this item to set the type of the batching application to Automatic or Manual

    AUTO - In this mode you start the batch by pressing the **F1** key. Output #1 activates and ***OP1*** annunciator lights. When the weight reaches the configured cutoff value, output #1 turns off. Output #2 automatically activates and ***OP2*** lights to continue the batch. This pattern repeats through output #2 and #3.

    MAN. - In manual mode, the user presses **F1** to start the batching process. As each output weight is met the output deactivates and the user must press the **F1** key to activate each subsequent output.

24. Press the **PRINT** key…

    The current type setting is displayed.

25. Toggle between the choices by pressing the **TARE** or **UNITS** key. Press the **ENTER** key when your choice is displayed…

    TYPE is displayed.

26. Press the **UNITS** key…

    CLEAR is displayed. Use this item to clear all the information stored for this application. **WARNING - Only do this if you are sure you want the information permanently removed!**

    You may want to print out the report before clearing all the information.

27. Press the **ENTER** key…

    SURE? is displayed.

28. Press the **ESC** key to abort the save process or press the **ENTER** key to clear all the information…

    CLEAR is displayed.

29. Press the **SELECT** key…

    BATCH is displayed.

TARGET
(Checkweighing application)

1. Press the **UNITS** key…

    TARGET is displayed. Use this item to print and clear reports for the checkweigher application and to set the type of sampling to be used, Net or Sample.

2. Press the **PRINT** key…

PRINT is displayed. Use this item to print out a complete report of checkweigher information.

3. Press the **ENTER** key …

   Display shows ***BUSY*** briefly then returns to ***PRINT***.

4. Press the **UNITS** key…

   TYPE is displayed. Use this to set the way you set the target weight for the checkweighing application. You have two choices; ***LIMIT*** and ***SPL*** (sample).

   LIMIT - You enter the upper and lower limits for your item and the indicator will use those values to run the checkweighing graph on the top center of the display. This setting allows an Accept range. Each segment of the fan graph will equal one division.

   SPL - This method allows the user to place a correct weight "product" on the scale to set the target weight. The indicator will use this weight to run the display. Upper and lower limits will automatically be 1 division above and below the target weight respectively. Each colored display graduation is equal to 1 scale division. The *TARGET* light stays lit Toggle between the choices by pressing the **TARE** or **UNITS** key. Press the **ENTER** key when your choice is displayed…

   TYPE is displayed.

5. Press the **UNITS** key…

   CLEAR is displayed. Use this item to clear all the information stored for this application. **WARNING - Only do this if you are sure you want the information permanently removed!**

   You may want to print out the report before clearing all the information.

6. Press the **ENTER** key…

   SURE? is displayed.

7. Press the **ESC** key to abort the save process or press the ENTER key to clear all the information…

   CLEAR is displayed.

8. Press the **SELECT** key…

   TARGET is displayed.

COUNT
(Counting Application)

1. Press the **UNITS** key…

   COUNT is displayed. Use this item to clear and print reports for the count application.

2. Press the **PRINT** key…

   PRINT is displayed. Use this item to print out a complete report of count application information.

3. Press the **ENTER** key …

   Display shows ***BUSY*** briefly then returns to ***PRINT***.

4. Press the **UNITS** key…

   CLEAR is displayed. Use this item to clear all the information stored for this application. **WARNING - Only do this if you are sure you want the information permanently removed!**

You may want to print out the report before clearing all the information.

5. Press the **ENTER** key…

   SURE? is displayed.

6. Press the **ESC** key to abort the save process or press the **ENTER** key to clear all the information…

   CLEAR is displayed.

7. Press the **SELECT** key…

   COUNT is displayed.

TOP
(Peak Weight Application)

1. Press the **UNITS** key…

   TOP is displayed. Use this item to clear and print reports for the peak application.

2. Press the **PRINT** key…

   PRINT is displayed. Use this item to print out a complete report of peak application information.

3. Press the **ENTER** key …

   Display shows ***BUSY*** briefly then returns to ***PRINT***.

4. Press the **UNITS** key…

   CLEAR is displayed. Use this item to clear all the information stored for this application. WARNING - Only do this if you are sure you want the information permanently removed!

   You may want to print out the report before clearing all the information.

5. Press the **ENTER** key…

   SURE? is displayed.

6. Press the **ESC** key to abort the save process or press the **ENTER** key to clear all the information…

   CLEAR is displayed.

7. Press the **SELECT** key repeatedly until ***SETUP*** is displayed.

This concludes the Application section of the Supervisor menu.

TEST submenu (Test menu)

1. Enter the Supervisor men and press the **UNITS** key repeatedly until…

   TEST is displayed. This menu lets you view indicator information and test the scale, the display, keypad, serial port, inputs and outputs.

ABOUT
(Indicator information)

2. Press the **PRINT** key…

   ABOUT is displayed. Press the **PRINT** key then the **UNITS** key to view the part number and revision level for the software found in your indicator.

   Press **SELECT** key to return to ***ABOUT***.

ADC
(Analog to Digital converter)

3. Press the **UNITS** key…

   ADC is displayed. This stands for the analog to digital converter value in mV/Vs.

4. Press the **PRINT** key…

   The mV/V value coming into the indicator from the scale is displayed. You can use the **ZERO** key to zero the mV/V reading. The scale can then be tested for function and linearity.

5. Press the **SELECT**…

   ADC is displayed.

DISP
(Display test)

6. Press the **UNITS** key…

   DISP is displayed. This is the display test item.

7. Press the **PRINT** key to perform a dynamic test of the display. This allows you to see any damaged areas of the display, which may require a display replacement.

8. Press the **ESC** key to stop the dynamic test.

BUTTON
(Key test)

9. Press the **UNITS** key…

   BUTTON is displayed. This is the keypad button test item.

10. Press the **PRINT** key to perform a button test. Each key you press will be reflected on the display screen to confirm the button is functioning correctly.

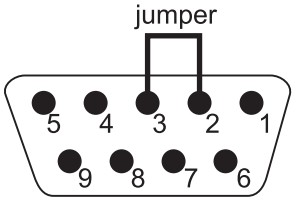
11. Press the **ESC** key to stop the button test.

    BUTTON is displayed.

SERIAL
(Serial port test)

12. Press the **UNITS** key…

    SERIAL is displayed. This is the serial port test item.



Serial port connector

13. Press the **PRINT** key…

    PORT1 is displayed.

14. Use the **TARE** or **UNITS** keys to toggle between Port 1 and Port 2. To test the communications port, jumper the TX and RX lines (pins 2 and 3 as shown in illustration at left). When the port you want to test is displayed, press the **PRINT** key…

    With the pins jumpered, if the wiring and hardware are operating correctly, ***PASS*** will be displayed. If there is a problem, ***FAIL*** will be displayed and you should contact a service representative.

15. Press **SELECT** key to exit the serial test.

    SERIAL is displayed.

INPUT
(Input test)

16. Press the **UNITS** key…

    INPUT is displayed. This will test remote input switches connected to the indicator.

17. Press the **PRINT** key to access the test.

    1 2 3 is displayed. ***1*** stands for input 1, etc.

18. Activate any remote switches connected to the indicator to verify hardware and wiring…

    The display will show the input number change to 0 if the external switch is operating properly.

19. Press the **SELECT** key to exit the test…

    INPUT is displayed.

OUTPUT
(Output test)

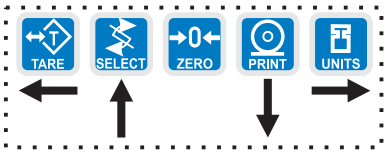
20. Press the **UNITS** key…

    OUTPUT is displayed. This is the output test item. **See note at left.**

CAUTION: Follow all lockout and red tag procedures. Disconnect all devices not intended to start before running this test.

21. Press the **PRINT** key to access the test.

    OUT 1 is displayed. This stands for output 1.



22. Press the **PRINT** key…

    The display toggles between ***ON*** and ***OFF***. This will toggle the output off and on. Use a Trips Interface Unit (TIU3) or other output device. Monitor the output to see that it is turning on and off.

23. Stop the test by pressing the **SELECT** key…

    OUT 1 is displayed.

24. Press the **UNITS** key…

    OUT 2 is displayed.

25. Repeat steps 21 and 22 for outputs 2 and 3. At step 21, use the **TARE** or **UNITS** key to scroll to the desired output.

26. Press the **SELECT** key…

    OUTPUT is displayed.

This completes the ***TEST*** menu item. Press the **SELECT** key to go to ***TEST***, then press the **UNITS** key to go to the ***AUDIT*** submenu or press **ESC** to return to normal weighing mode.

AUDIT (Audit counters)

The next section of the Supervisor menu is the AUDIT submenu. This menu lets you view configuration and calibration audit counters. These counters cannot be changed, only viewed. They are a record of configurations and calibrations performed on the indicator.

Follow these steps to access each item in the AUDIT submenu:

CFG
(Configuration audit counter)

1. With ***AUDIT*** displayed, press the **PRINT** key…

   CFG is displayed. This stands for the Configuration audit counter. Use this item to see how many times this indicator has been configured.

2. Press the **PRINT** key…

   A number is briefly displayed, then ***CFG*** is displayed. This is the number of times this indicator has been configured.

CAL
(Calibration audit counter)

3. Press the **UNITS** key…

   CAL is displayed. This stands for the Calibration audit counter. Use this item to see how many times this indicator has been calibrated.

4. Press the **PRINT** key…

   A number is briefly displayed, then ***CAL*** is displayed. This is the number of times this indicator has been calibrated.

5. Press the **SELECT** key…

   AUDIT is displayed.

SLEEP (Sleep mode)

When the indicator goes to sleep you must press the ON/OFF switch to restart the indicator.

Any motion or any key press restarts the sleep timer.

1. Press the **UNITS** key…

   SLEEP is displayed. This stands for the sleep mode timer.

2. Press the **PRINT** key…

   Current sleep timer value is shown. Scroll through the choices (1/2, 2, 4, or OFF) by pressing the **TARE** or **UNITS** key. Choose ***OFF*** to disable sleep mode. Choose any of the other values to enable a sleep mode after the chosen time of keyboard inactivity and no scale motion.

3. Press **ENTER** when choice is displayed…

   SLEEP is displayed.

This completes the Sleep item and the Supervisor menu.

4. Press **ESC** to save and return to normal weighing operation.

Indicator Operations

8

The E1010 comes equipped with several weighing applications;

*When the indicator goes to sleep you must press the **ON/OFF** switch to restart the indicator.*

This indicator has a 10 channel PLU (Product Look Up) memory. To access a memory channel, press a number from 0 to 9, then press the F1 key.

- General weighing (default setting)
- Accumulator weighing
- Batch weighing
- Checkweigher
- Counting
- Peak capture
- Remote display

These applications are enabled using a password protected menu. *Contact your local supplier or Avery Weigh-Tronix distributor for assistance with the password protected menu.* Also see *SETUP submenu (Setup menu)* on page 36 in this manual for configuring a specific application.

If multiple applications are enabled, you can switch between them by pressing the **MODE** key. The display will briefly show the application name when you press the **MODE** key.

The general weighing application comes as the default application. You can do gross weighments and tare/net weighments. Below are instructions for each.

8.1 General Weighing

To perform gross weighing, power up the unit and follow these steps:

*To change unit of measure, press the **UNITS** key.*

1. Empty the scale and press **ZERO** key to zero the display…

   0 is displayed and gross and center of zero annunciators are lit.

2. Place item to be weighed on the scale…

   Weight is displayed.

8.2 General Tare/Net Weighing

To perform a net weighment, power up the unit and follow these steps:

*You can key in a known tare weight. Key in the value and press the **TARE** key.*

The scale weight must be at zero before you can key in a known tare weight.

1. Empty the scale and press **ZERO** key to zero the display…

   0 is displayed and gross and center of zero annunciators are lit.
2. Place item to be tared on the scale…

   Weight is displayed.
3. Press the **TARE** key…

   0 is displayed and net annunciator is lit.
4. Place material to be weighed on the scale…

   Net weight of material is displayed and net annunciator is lit.
5. Repeatedly press the **SELECT** key to scroll through gross, tare, and net values. Remove the weight from the scale and press **TARE** to return to gross mode.

Using Outputs

You can use the outputs function if so desired while in the general weighing application. Follow these steps to setup the outputs.

Output operation in general weighing mode:
Below Configured Value:
Outputs are ON
Annunciators are OFF
TIU3 Relays are ON

Above Configured Value:
Outputs are OFF
Annunciators are ON
TIU3 Relays are OFF

1. With the indicator powered up, press and hold the **SELECT** key until…

   OP1 is displayed.
2. Press the **PRINT** key to see a value entry screen…

   Press the **PRINT** key to accept the displayed value or key in a new value and press the **ENTER** key to accept. ***OP2*** will be displayed.
3. Repeat for the other outputs. You can skip the displayed output by pressing the **ESC** key.
4. After OP3 has been set, or skipped, the indicator will automatically return to normal weighing mode.

8.3 Accumulator Weighing

The accumulator is memory that collects individual weighments (gross and net) and stores the totals. These totals can be recalled at any time and the number of weighments included in the totals can be displayed. With the proper password all information can be deleted. See the *PLU (Product Look Up)* on page 36.

*Press the **MODE** key to scroll through the enabled applications.*

The accumulator maximum is 999,999. It does not rollover to start over at 0.

To use the accumulator, power up the unit and follow these steps:

1. Empty the scale and press the **ZERO** key to zero the display…

   0 is displayed and gross and center of zero annunciators are lit.

You can use tare/net weighing with the accumulator application. The accumulator stores both gross and net totals for later recall.

2. Place item on the scale…

   Weight is displayed.

3. You can press the **PRINT** or **F1** key to add weight to the accumulator. If you press **PRINT**, the weight is accumulated and the information printed. If you press **F1**, the weight is accumulated. Scale weight must return to a weight within the configured gross zero band before another weighment can be accumulated.
4. Repeat 2 and 3 for each weighment you want to accumulate.
5. To review the accumulator total and the number of weighments, remove all weight from the scale (the scale must read 0 weight) and press the **SELECT** key repeatedly…

   1st press = Net weight displayed
   2nd press = Tare weight displayed
   3rd press = Gross total of all weighments is displayed
   4th press = Net total of all weighments is displayed
   5th press = Number of weighments is displayed
   6th press = Active PLU number is displayed.
   7th press = Display returns to gross weigh mode

You need the supervisor's password to clear the accumulator.

Using Outputs

You can use the outputs function if so desired while in the Accumulator application. Follow these steps to setup the outputs.

Output operation in accumulation mode:
Below Configured Value:
Outputs are ON
Annunciators are OFF
TIU3 Relays are ON

Above Configured Value:
Outputs are OFF
Annunciators are ON
TIU3 Relays are OFF

1. With the indicator powered up, press and hold the **SELECT** key until…

   OP1 is displayed.
2. Press the **PRINT** key to see a value entry screen…

   Press the **PRINT** key to accept the displayed value or key in a new value and press the **ENTER** key to accept. ***OP2*** will be displayed.
3. Repeat for the other outputs. You can skip the displayed output by pressing the **ESC** key.
4. After OP3 has been set, or skipped, the indicator will automatically return to normal weighing mode.

8.4 Checkweighing

This section applies if your indicator has the checkweighing application active. Applications are activated through the password protected menu.

*This indicator has a 10 channel PLU (Product Look Up) memory. To access a memory channel, press a number from 0 to 9, then press the **F1** key.*

Checkweighing allows a quick, visual check of the acceptability or unacceptability of an item's weight.

You can set your target weight in one of two ways. The mode is set in the password protected Supervisor menu. See the *Supervisor Menu* on page 34 for instructions. The two modes are explained below:

The graph is based off of net weight so, if a tare is active, only the net weight is considered for checkweighing. If there is no tare, gross weight is used as the basis for the graph.

Limit Mode Enter the upper and lower limits for your item and the indicator will use those values to run the display. See Figure 8.1.

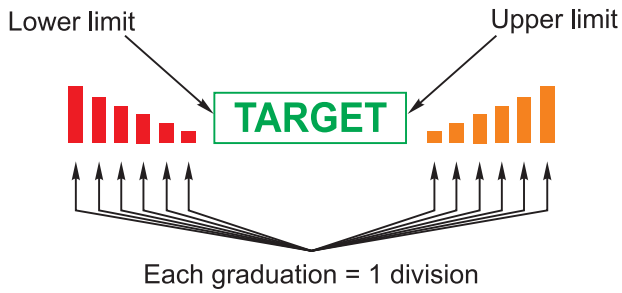


Figure 8.1 Limit mode

Sample Mode Place a correct weight "product" on the scale and press the **F1** key. The indicator will use this weight to run the display. Upper and lower limits will automatically be 1 division above and below the target weight respectively. Figure 8.2 shows how the graphic display works in Sample mode. Each graduation is equal to 1 scale division. The *TARGET* light stays lit if weight is ±1 division of the target weight.

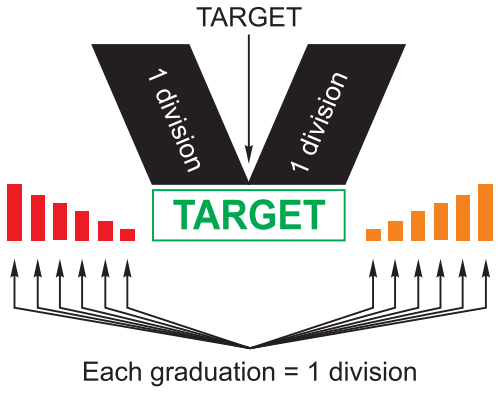
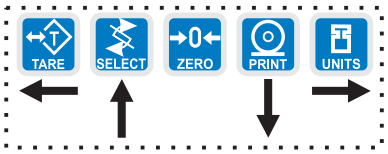


Figure 8.2 Sample Mode

Limit Mode: Entering Upper and Lower Limits



Follow these steps to setup and use the checkweigher function if limit mode is enabled, where you set upper and lower weight limits:

1. Press the **F1** key…

   Up is displayed followed by an underscore cursor.

2. Key in the upper weight limit. Press the **F1** key…

   Lo is displayed.

3. Key in the lower weight limit. Press the **F1** key…

   The indicator returns to normal weigh mode.

4. Place items on the scale and the display will show if the weight is over, under or acceptable based on the limits you have set.

Sample Mode: Using Product to Set Target Weight

Follow these steps to setup and use the checkweigher function if sample mode is enabled, where you set target weight based on an actual “product”:

1. Place a sample, of the correct weight, on the scale…

   Weight is displayed.

2. Press the **F1** key.

   The target weight is captured, the indicator switches to net mode, the display reads ***0*** and your indicator is ready to use as a checkweigher. The target weight will be the same as your sample item and the target will stay lit whenever an item’s weight is within ±1 division of the target weight.

Performing a Checkweighing Weighment

1. With your target weight set, as described in one of the previous two sections, place your item on the scale…

   If the weight equals the acceptable value, the *TARGET* annunciator lights. If the weight varies from the target value, upper or lower segments may be lit and the weight will show a plus or minus weight reading for the deviation from the target weight.

2. Repeat step 1 for all products of this weight.

Using Outputs

Output operation in checkweighing mode:
Outputs are OFF in gross zero band
Annunciators are OFF
TIU3 Relays are OFF

Outputs latch on for appropriate ABOVE, OVER and ACCEPT
Annunciators are ON
TIU3 Relays are ON

The output function in the checkweigher mode functions differently than in the other applications. The outputs are controlled by the over, under and accept values. OP1 activates and its annunciator illuminates when the under condition is present. OP2 activates and its annunciator illuminates when the accept condition is present. OP3 activates and its annunciator illuminates when the over condition is present.

8.5 Counting

This section applies if your indicator has the counting application active. Applications are activated through a password protected service menu.

*This indicator has a 10 channel PLU (Product Look Up) memory. To access a memory channel, press a number from 0 to 9, then press the **F1** key.*

Follow these steps to perform a counting function with the E1010:

1. In gross weight mode, press the **F1** key…

   PCS is displayed followed by an underscore cursor.

2. Enter the sample size you desire (see note at left) and press **ENTER**…

   Add X is displayed. ***X*** is the sample size you keyed in.

3. Place the correct number of parts on the scale and press the **ENTER** key. ***BUSY*** is briefly displayed, followed by one of two possible displays:

   a. If the sample met the minimum sample requirements, the display will show the correct number of parts on the scale.

   b. If the sample size was not large enough, the display will show ***ERROR*** and then how many more parts to add to the scale (For example: 5 might be displayed.) Add the number requested, wait for the scale to stabilize, then press **ENTER** again. The display will read the correct number of parts on the scale.

4. Place the parts on the scale to be counted.

Using Outputs

You can use the outputs function if so desired while in the Counting application. Follow these steps to setup the outputs.

Output operation in counting mode:
Below Configured Value:
Outputs are ON
Annunciators are OFF
TIU3 Relays are ON

Above Configured Value:
Outputs are OFF
Annunciators are ON
TIU3 Relays are OFF

1. With the indicator powered up, press and hold the **SELECT** key until…

   OP1 is displayed.

2. Press the **PRINT** key to see a value entry screen…

   Press the **PRINT** key to accept the displayed value or key in a new value and press the **ENTER** key to accept. ***OP2*** will be displayed.

3. Repeat for the other outputs. You can skip the displayed output by pressing the **ESC** key.

4. After OP3 has been set, or skipped, the indicator will automatically return to normal weighing mode.

8.6 Batch Weighing

This section applies if your indicator has the batching application active. The batching application allows you to set three outputs based on three progressively larger weights. There are two possible modes of batching; Auto or Manual. Each are explained below.

This indicator has a 10 channel PLU (Product Look Up) memory. To access a memory channel, press a number from 0 to 9, then press the F1 key.

AUTO As weight is added to the scale and the first output point is reached, *OP1* annunciator lights and Output #1 is activated. When weight reaches the second cutoff, *OP2* annunciator lights and Output #2 activates. When weight reaches the third cutoff, *OP3* annunciator lights and Output #3 activates.

MANUAL In manual mode, after you begin the batching process, you must press the **F1** key to activate each subsequent output after each output weight is reached.

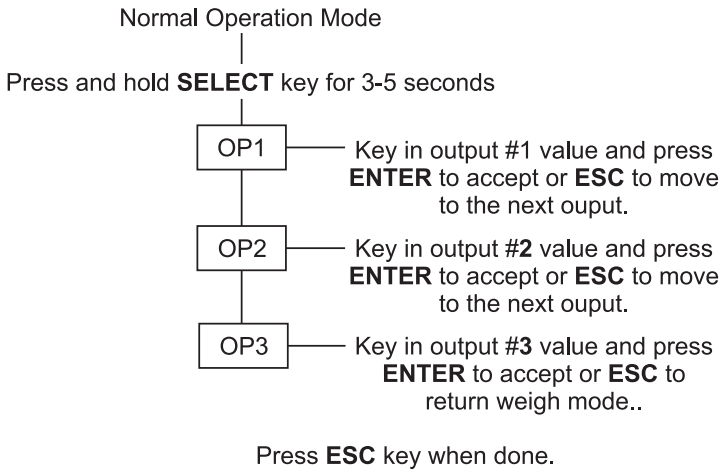

Normal Operation Mode
Press and hold SELECT key for 3-5 seconds
OP1
Key in output #1 value and press ENTER to accept or ESC to move to the next ouput.
OP2
Key in output #2 value and press ENTER to accept or ESC to move to the next ouput.
OP3
Key in output #3 value and press ENTER to accept or ESC to return weigh mode..
Press ESC key when done.

Figure 8.3 Output flowchart

Configuring Outputs

Follow these steps and the flowchart in Figure 8.3 to setup a recipe with three ingredients:

Output operation in batching mode:
Before activation by recipe:
Outputs are OFF
Annunciators are OFF
TIU3 Relays are OFF

After activation by recipe:
Outputs are ON
Annunciators are ON
TIU3 Relays are ON

1. With the indicator powered up, press and hold the **F1** key until…

   OP1 is displayed.

2. Press the **PRINT** key to set the value for the output…

   Key in a value and press the **F1** key to accept the value. ***OP2*** will be displayed.

   You can scroll through all three outputs by using the **TARE** and **UNITS** keys.

3. Press the **UNITS** key…

   OP2 is displayed.

4. Repeat steps 2 and 3 for each output. Press **ESC** key to return to normal operation with the ingredients active. Indicator will automatically return to normal weighing mode after OP3 value is entered.

8.7 Peak Weighing

This section applies if your indicator has the Peak application active.

This indicator has a 10 channel PLU (Product Look Up) memory. To access a memory channel, press a number from 0 to 9, then press the F1 key.

Peak weight is defined as the highest stable weight reached by the scale. Momentary higher weights that do not stabilize are ignored.

While in Peak mode, the Peak annunciator remains lit.

Follow these steps to perform a peak weighment:

1. Empty the scale and press the **ZERO** key to zero the display…

   0 is displayed.

2. Place the item(s) on the scale…

   Weight is displayed.

3. After the motion annunciator (**~**) turns off remove the item(s) from the scale,

   The peak weight is displayed and the center-of-zero annunciator lights.

4. To clear the peak value, press the **F1** key…

   0 is displayed.

5. Repeat steps 2-4 for other weighments.

Use the **SELECT** key to scroll through G, T, N and peak values

Using Outputs

You can use the outputs function if so desired while in the Peak Weighing application. Follow these steps to setup the outputs.

Output operation in peak mode:
Below Configured Value:
Outputs are ON
Annunciators are OFF
TIU3 Relays are ON

Above Configured Value:
Outputs are OFF
Annunciators are ON
TIU3 Relays are OFF

1. With the indicator powered up, press and hold the **SELECT** key until…

   OP1 is displayed.

2. Press the **PRINT** key to see a value entry screen…

   Press the **PRINT** key to accept the displayed value or key in a new value and press the **ENTER** key to accept. ***OP2*** will be displayed.

3. Repeat for the other outputs. You can skip the displayed output by pressing the **ESC** key.

4. After OP3 has been set, or skipped, the indicator will automatically return to normal weighing mode.

Communications and Printing 9

The E1010 provides two RS-232 outputs for data transmission to peripheral devices. *Contact your local supplier or Avery Weigh-Tronix distributor for assistance with RS-232 interface connections.*

If your indicator has a peripheral device connected, from the gross/net weighing mode press the **PRINT** key to transmit the configured print formats.

The default serial port parameters are 9600 baud, 8 databits, no parity and 1 stop bit.

The *PRINT* annunciator will illuminate while data is transmitted and the data configured to be printed will be output to the printer.

Print Format #1 for weighing applications

G 1234.56 lb<CR><LF>

Print Format #1 for counting application

Count: 12230

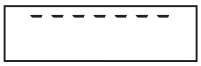
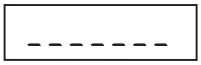
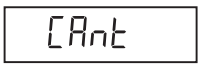
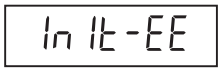
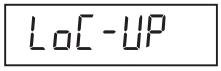
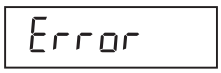
Print Format #1 for peak application

12230 lb<CR>

Error Messages

10

The following are displays you may see if problems occur or if invalid operations are attempted with your indicator:

Display	Description
	Over-range weight
	Under-range weight
	The unit cannot perform a function. Displayed only while the key is held down.
	Displayed while a key is pressed when attempting to modify a sealed selection without edit privileges.
	Appears on the display when the EEprom is not functioning correctly.
	Appears on the display when the Analog to Digital converter is not functioning correctly.
	Appears on the display when trying to change something and the scale is sealed.

Indicator Diagnostics 11

11.1 Indicator Test Functions

The user menu lets you test various functions of the indicator. The user menu is shown in Figure 11.1. Instructions for using the Test portion of the menu are found below.

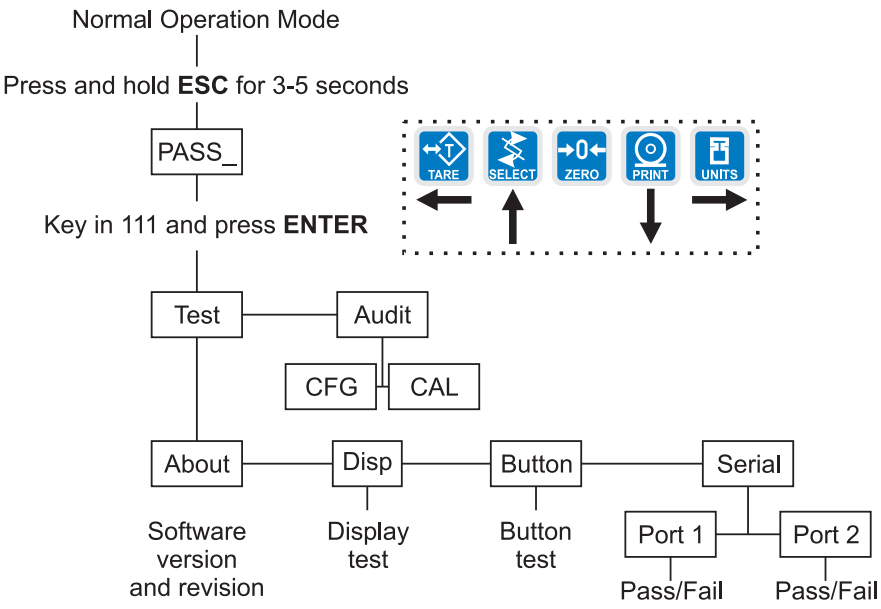
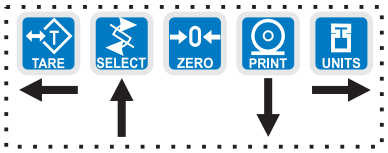


Figure 11.1 User Menu



1. Access the User menu by pressing and holding the **ESC** key for 3-5 seconds.

   PASS_ is displayed.

2. Key in the User menu password = 111 and press **ENTER**.

   TEST is displayed.

3. Press the **PRINT** key.

   ABOUT is displayed. Press the **PRINT** key then the **UNITS** key to view the part number and revision level for the software found in your indicator.

   Press **SELECT** key to return to ***ABOUT***.

4. Press the **UNITS** key…

   DISP is displayed. This is the display test item.

5. Press the **PRINT** key to perform a dynamic test of the display.

6. Press **ESC** key to stop the dynamic test.

7. Press the **UNITS** key…

BUTTON is displayed. This is the button test item.

8. Press the **PRINT** key to perform a button test. Each key you press will be reflected on the display by a name or numbers to confirm the button is functioning correctly. See *KEY / DISPLAY* below. The **ESC** key is excluded from this test. Use it to stop the testing and return to the ***BUTTON*** menu item.

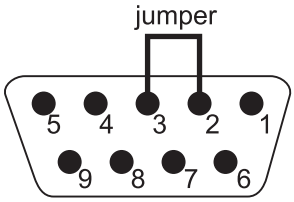
KEY = DISPLAY	
TARE =	***tArE***
SELECT =	***SELECt***
ZERO =	***ZEro***
PRINT =	***Print***
UNITS =	***Units***
F1 =	***F1***
Power =	***on/oFF***
7 =	***777***
8 =	***888***
9 =	***999***
4 =	***444***
5 =	***555***
6 =	***666***
1 =	***111***
2 =	***222***
3 =	***333***
0 =	***000***
. =	***dP***
C/CE =	***CE***
MODE =	***nnodE***
ENTER =	***EntEr***
ESC	***ESc*** is briefly displayed before exiting the test

9. Press **ESC** key to stop the button test.

BUTTON is displayed.

10. Press the **UNITS** key…

SERIAL is displayed. This is the serial port test item.



Serial port connector

11. Press the **PRINT** key…

PORT1 is displayed.

12. Use the **TARE** or **UNITS** keys to toggle between Port 1 and Port 2. To test the communications port, jumper the TX and RX lines (pins 2 and 3 as shown in illustration at left). When the port you want to test is displayed, press the **PRINT** key…

With the pins jumpered, if the wiring and hardware are operating correctly, ***PASS*** will be displayed. If there is a problem, ***FAIL*** will be displayed and you should contact a service representative.

13. Press **SELECT** key twice to exit the serial test…

SERIAL is displayed.

14. Press the **SELECT** key…

TEST is displayed.

15. Press the **UNITS** key…

AUDIT is displayed.

Audit counters cannot be reset.

16. Press the **PRINT** key…

CFG is displayed. This stands for the configuration audit counter.

17. Press the **PRINT** key to see the number of times the configuration has been altered on this indicator. After a few seconds…

CFG is displayed.

18. Press the **UNITS** key…

CAL is displayed. This stands for the calibration audit counter.

19. Press the **PRINT** key…

The number of times the indicator has been calibrated is displayed.

20. After a few seconds…

CAL is displayed.

21. Press the **ESC** key…

The display returns to normal operation mode.

This completes the User menu.

Specifications

Power requirements	100-240 Volts AC @ 600 mA 50/60 Hz Optional Internal battery: 23 hours of continuous operation with one weight sensor; 15 hours of continuous operation with four weight sensors Standby mode extends battery life
Excitation	5 volts Supports up to four 350-ohm weight sensors
Analog Signal Input Range:	12 mV/V
Analog Signal Sensitivity:	0.5 µV/division minimum
Calibration	2 to 5 points stored
Operational keys	Tare, Select, Zero, Print, Units, F1, Clear, Mode, Escape, Enter, On/Off, 0-9 numeric and decimal point
Operational annunciators	Center of Zero, Motion, Gross, Tare, Net, Battery status Under/Target/Over Units of measure (LB, KG, Custom unit) Peak, Print, OP1, OP2, OP3, Count, Preset Tare
Display	Seven-digit, seven-segment, 0. 8-inch high Lighted STN Transmissive Display rate Selectable (1, 2, 5, 10)
Analog to digital conversion rate	60 times per second
Unit of measure:	Three, independently programmable units of measure Pounds, Kilograms, Custom
Capacity selections	999,999 with decimal located from zero to five places
Incremental selections	Multiples and sub-multiples of 1, 2, 5
Programmable selections	Zero range, motion detection, automatic zero tracking, five-point linearization
Time and date / RAM	Battery backed up real time clock and RAM
Internal resolution	64,424,509 counts per mV/V per sec
Standard inputs	Three logic level inputs for: Zero, Print, Tare, Units, F1

Standard outputs	Three cutoff outputs, open collector design
Serial outputs	Two serial ports: • RS-232 / RS-422 / RS-485 / 20mA current loop • RS-232
Serial Command Inputs	Programmable serial response to ASCII character input, SMA protocol, broadcast, enquire, RDj-4100, E-Series remote display
Self diagnostics	Display, keys, inputs, outputs, serial ports
Circuitry protection	RFI, EMI, and ESD protection
Options	Trips Interface Unit (TIU3)
Operating applications	General weighing, simple counting, checkweighing, accumulation, peak measurement, batching, and remote display. If enabled, switchable from front panel.
Operating temperature	14 to 104° F (-10 to 40° C) approved -4 to 140° F (-20 to 60° C) non-legal 10 to 90% noncondensing humidity
Enclosure	Stainless steel NEMA 6/4X
Dimensions:	9.25” W x 9.25” H x4.5 “ D (23.5cm W x 23.5cm H x 11.4cm D) (without mounting bracket) 9.75" W x 11” H x 7" D (24.8cm W x 28cm H x 17.8cm D) (with mounting bracket)
Weight:	11 lb, 5 kg
Agencies and Approvals:	NTEP CC# 04-029 Class III/IIIL:10,000 divisions OIML Cert. No. R76/1992-GB1-04.09 Class III: 10,000 divisions Canadian Weights and Measures pending UL/CUL CE marked

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